

20.4: Discussion

Discussion (30 points)

For the discussion you have two options:

1. Answer each question below in sufficient detail to address each task, so more than 1-2 sentences.
2. Write a minimum half-page (12 font, single spaced) discussion on the experiment conducted this week. **The assignment will be graded on completeness, clarity of the explanations and the meaningful integration of the collected and calculated data.** Correct grammar and appropriate format for the chemical formulae and chemical reactions is expected. **You may use the outline included at the end of this document on how to build your essay to address each category.**
 1. Using at least one of your recorded mass and volume measurements, identify its required components (number and unit).
 2. Identify the number of significant figures in all your recorded measurements. Describe what process you used to decide how many numbers were significant.
 3. Describe how you measured the volume of the regular and irregular objects. Use one of your measurements for each to demonstrate the process.
 4. Describe how you calculated the density of the regular and irregular objects. Use one of each of your calculations to demonstrate the process.
 5. Give a supported argument for whether density is affected by the amount of material in your sample.
 6. Use one your density calculations as an example to show how you determined the number of significant figures in your answer.
 7. Propose another experiment to determine the density of something that interests you around your house. Testing your proposed method is a good way to ensure that you are correct. Don't hesitate to share your pictures!

Recommended discussion outline:

The techniques I used in this experiment were...

By dividing the mass by the volume, the amount of each was no longer important because...

In this experiment we assumed

The purpose of the experiment was (Hint: it was not to find the density of a bunch of random objects) ... By performing this experiment, I learned...

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